



DELHI TRANSIT

Delhi Integrated Multi Modal Transit System Ltd.

(A Joint Venture of Govt. of Delhi & IDFC Ltd.)

Subject: Implementation of BRT Corridor from Ambedkar Nagar to Delhi Gate.

Sub Head: Repairs/ restoration of road cut by Delhi Transco Limited for laying of cables on BRT Corridor (Mathura Road) at T-point.

BID DOCUMENTS

VOLUME 2

TECHNICAL SPECIFICATIONS

BILL OF QUANTITY

Delhi Integrated Multi-Modal Transit System Ltd.

(A Joint Venture of Government of Delhi & IDFC Ltd.)
Kashmere Gate, Delhi-110006

TECHNICAL SPECIFICATIONS

- 1.0 The work shall include supply of all materials and ingredients for construction, erection/installation at site, commissioning/performance of desired function, handing over of works to the designated persons.
- 2.0 The work shall include providing scaffolding wherever required as well as necessary measures to be taken for the safety of the workers and the passer byes.
- 3.0 Works shall be carried out at all heights and at all depths/levels.
- 4.0 The item of works curing and bonding arrangement by way of application suitable components on junctions of old and new materials.
- 5.0 Works shall be carried out without disrupting the supply of municipal/other services and shall include making temporary arrangements for continuance of water, drainage, sewer, electricity, telecom/communication, gas etc to the occupants during the construction period.
- 6.0 Concreting shall be done with all safety precautions as the work is to be done in important area, which has large volume of vehicular & human traffic movement.
- 7.0 Contractor shall maintain all environmental protection norms during entire construction & safety precautions.
- 8.0 As per provisions of contract, Cement of OPC 43 grade is permissible. However under special conditions i.e. In case of non availability of same cement 53 grade shall be allowed without any additional financial implication.

- 9.0 The contractor/agency has to ensure that all necessary safety measures other than specified in the items is provided without any additional cost for smooth execution of works.
- 10.0 All items of works shall be executed in accordance with the drawings and technical specifications enclosed in part – I of tender.
- 11.0 SW pipes, RCC pipes GI/CI pipes dismantled /retrieved during construction work shall be disposed off as per instructions of the site in-charge. The rates may be quoted after considering the same. No additional payments shall be made for dismantling and shifting of these pipes/materials.
- 12.0 Agency/contractor has to work in co – ordination with the telecom operators/service providers and provide necessary assistance in relocation of their services. No extra payments shall be made on this account by owner.

Bill of Quantities

Subject: Implementation of BRT Corridor from Ambedkar Nagar to Delhi Gate.

Subhead: Repairs/ restoration of road cut by Delhi Transco Limited for laying of cables on BRT Corridor (Mathura Road) at T-point.

S.no	Details of Item	Qty	Unit	Rate	Amount (in Rs.)
1	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30cm in depth. 1.5m in width as well as 10 sqm on plan) including disposal of excavated earth, lead upto 50m and lift upto 1.5m, disposed earth to be levelled and neatly dressed. All kinds of soil	385	Cum		
2	Extra for every additional lift of 1.5 m or part thereof in. All kinds of soil.	10	Cum		
3	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : (1 cement : 4 fine sand : 8 graded stone aggregate 40 mm nominal size)	90	Cum		
4	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) cum	40	Cum		
5	Providing and laying C.C. pavement of mix M25 with ready mixed concrete from batching plant. The ready mixed concrete shall be laid and finished with screed board vibrator , vacuum dewatering process and finally finished by floating, brooming with wire brush etc. complete as per specifications and directions of Engineer-in-charge. (The panel shuttering work shall be paid for separately).	80	Cum		

6	Brick work with F.P.S. bricks of class designation 75 in foundation and plinth in: Cement mortar 1:4 (1 cement : 4 coarse sand)	35	Cum		
7	12 mm cement plaster of mix : 1:4 (1 cement : 4 coarse sand)	200			
8	Neat cement punning	100	Sqm		
9	Providing, hoisting and fixing up to floor five level precast reinforced cement concrete in small lintels not exceeding 1.5m clear span up to floor five level including the cost of required centering, shuttering and finishing smooth with 6 mm thick cement plaster 1:3 (1 cement : 3 fine sand) on exposed surfaces but excluding the cost of reinforcement with (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size).	15	Cum		
10	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete. Cold twisted bars kilogram	1350	Kg		
11	Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete:	5775	Kg		
12	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	111	Cum		
13	Carriage of material by mechanical transport including loading, unloading and stacking Earth - Lead of 20 Km	274	Cum		

14	Preparation and consolidation of sub grade with power road roller of 8 to 12 tonne capacity after excavating earth to an average of 22.5 cm. depth, dressing to camber and consolidating with road roller including making good the undulations etc. and re-rolling the sub grade and disposal of surplus earth lead upto 50 metres.	450	Sqm		
15	Providing and laying 60mm thick factory made cement concrete interlocking paver block of M -30 grade made by block making machine with strong vibratory compaction and of approved size and design/ shape laid in required colour and pattern over and including 50mm thick compacted bed of coarse sand, filling the joints with coarse sand etc. all complete as per the direction of Engineer-in-charge.	108	Sqm		
16	Providing and laying at or near ground level factory made kerb stone of M-25 grade cement in position to the required line, level and curvature jointed with cement mortar 1:3 (1 cement: 3 coarse sand) including making joints with or without grooves (thickness of joints except at sharp curve shall not to more than 5mm) including making drainage opening wherever required complete etc. as per direction of Engineer-in-charge (length of finished kerb edging shall be measured for payment). (Precast C.C. kerb stone shall be approved by Engineer-in-charge).	17	Cum		
	Total				